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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/805,732	03/22/2004	John S. Love	P2009US00	9570
35633	7590 09/19/2005		EXAMINER	
GATEWAY	-	WRIGHT, INGRID D		
610 GATWAY DRIVE ATTENTION: GAYLE BEKISH, MAIL DROP Y-04 NORTH SIOUX CITY, SD 57049			ART UNIT	PAPER NUMBER
			. 2835	

DATE MAILED: 09/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Commence		10/805,732	LOVE, JOHN S.			
	Office Action Summary	Examiner	Art Unit			
		Ingrid Wright	2835			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence addres	SS		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMU 36(a). In no event, however, may vill apply and will expire SIX (6) No., cause the application to become	NICATION. y a reply be timely filed MONTHS from the mailing date of this commu e ABANDONED (35 U.S.C. § 133).	·		
Status						
1)⊠	Responsive to communication(s) filed on 3/220	<u>04</u> .				
	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 (2.D. 11, 453 O.G. 213.			
Dispositi	ion of Claims					
4)🖂	Claim(s) 1-21 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw	vn from consideration.				
	Claim(s) 1-9,12 and 13 is/are allowed.					
·	Claim(s) <u>10,11,14,15,19,20,21</u> is/are rejected.					
•	Claim(s) <u>16-18</u> is/are objected to.					
8)[_]	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	ion Papers					
9)[The specification is objected to by the Examine	r.				
10)⊠	The drawing(s) filed on 22 March 2004 is/are: a	a)⊠ accepted or b)□ ∈	objected to by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abe	yance. See 37 CFR 1.85(a).			
_	Replacement drawing sheet(s) including the correction	•	- · · · · · · · · · · · · · · · · · · ·			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attacl	ned Office Action or form PTO-1	52.		
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C). § 119(a)-(d) or (f).			
	1. Certified copies of the priority documents	s have been received.				
	2. Certified copies of the priority documents	s have been received in	n Application No			
	3. Copies of the certified copies of the prior	rity documents have be	en received in this National Stag	ge		
	application from the International Bureau	• • • • • • • • • • • • • • • • • • • •				
* \$	See the attached detailed Office action for a list	of the certified copies r	ot received.			
Attachme-	.t/a)					
Attachmen 1) Notice	n(s) ce of References Cited (PTO-892)	4) 🗍 Intervie	ew Summary (PTO-413)			
2) Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper I	No(s)/Mail Date	٠,		
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 3/22/04.	5) Notice 6) Other:	of Informal Patent Application (PTO-152	()		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10,11,14,15,19,20,21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moon (US 6275376 B1) in view of Mizuta (US 20040203532 A1) and further in view of Taneya et al. (US 20050181846 A1).

With respect to claim 10, Moon teaches (Fig.1B) a multiaxial hinge assembly (25) that enables rotation about a first axis (21) between a clockwise limit and a counterclockwise limit and rotation about a second axis (23) that is orthogonal to the first, but does not provide an indicator to a user of the rotational direction.

Mizuta teaches (Fig. 2) an indicator means that comprises an actuator means (111a, 111b, 111c, 204a) to provide a signal corresponding to a rotational direction of the hinge assembly (300).

Mizuta does not specifically teach an indicator means to provide an indication to a user of the rotational direction.

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Taneya et al. teaches an indicator means (47b) to provide an indication to a user of the rotational direction about a second axis (col. 6, par. 0075).

Since the invention of Mizuta and Taneya et al. are in a related field of endeavor (communication), the actuator means of Mizuta and the indicator means of Taneya et al. would be realized in the invention of Moon.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the indicator means about as taught by Taneya et al. about a first axis and the actuator means of Mizuta in the invention of Moon, in order to provide a warning to the user regarding the limit or rotatable bound of the display.

With respect to claim 11, Mizuta teaches (Fig. 2) a magnet (204a, 204c) rotatable about a first axis between the clockwise and counterclockwise limits and a magnet sensor (111a, 111b, 111c) to provide a signal which may be used to determine whether the magnet (204a, 204c) is positioned substantially proximate the clockwise limit or the counterclockwise limit.

With respect to claim 14, Moon teaches a notebook type portable computer (10) (Fig. 1B) comprising a display portion (40), a main body portion (20) and a multiaxial hinge assembly (25) on which the display portion (40) is mounted to the main body

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portion (20) and which enables the display portion (40) to be rotated relative to the main body potion (20) about at least two orthogonal axes (21,23).

Moon does not teach a means to indicate a direction of rotation about a first axis when the display portion is rotated about the first axis substantially to at least one predetermined position.

Mizuta teaches (Fig. 2) a means to indicate (204a, 204c, 111a, 111b, 111c) a direction of rotation about an axis when the display portion is rotated about an axis substantially to at least one predetermined position.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the invention as taught by Mizuta in the invention of Moon, in order to provide a warning to the user of the rotatable bounds of the display.

With respect to claim 15, Muzata teaches a rotational limit.

With respect to claim 19, Mizuta teaches a LED (122) used as a visual alert means (col. 3, par. 0044).

With respect to claim 20, Mizuta teaches a speaker (203) used as an audible alert means (col. 3, par. 0048).

With respect to claim 21, Mizuta teaches a software routine to generate visual or audible indicators. (inherent)

Allowable Subject Matter

2. Claims 1-9,12,13 are allowed.

Claims 16-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1-9,12,13 & 16-18 the claim 1 recites: "a surface rotatable about the first axis and comprising a display window; and a display surface underlying the surface rotatable about the first axis, the display surface comprising a first directional indicator indicating a counterclockwise rotational direction and positioned to be revealed in the display window when the multiaxial hinge assembly is rotated substantially to the clockwise limit, and a second directional indicator indicating a clockwise rotational direction and positioned to be revealed in the display window when the multiaxial hinge assembly is rotated substantially to the counterclockwise limit," claim 4 recites: "a display surface substantially centered on and normal to the first axis,

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comprising a first rotational directional indicator positioned along a first radius of the first axis at a first radial distance, and a second rotational directional indicator positioned along a second radius of the first axis at substantially the same distance as the first radial distance; and a first display window overlying the display surface dimensioned and adapted to selectively display the first and second directional indicators therethrough; wherein a rotation of the pivot platform to the clockwise limit enables the first directional indicator to be displayed in the first display window and a rotation of the pivot platform to the counterclockwise clockwise limit enables the second directional indicator to be to be displayed in the first display window, " claim 10 recites: "an indicator to provide an indication to user to avoid an incorrect rotation about the first axis and an actuator means to provide a signal corresponding to a rotational direction of the hinge assembly and indicator means operatively coupled to the actuator means to provide an indication to a user of the rotational direction," and claim 12 recites: "a method of providing an indication to a user of a direction of rotation about a first axis of a multiaxial hinge assembly that enables rotation about at least two orthogonal axes," claim 16 recites: "an arrow that is oriented to indicate a direction of rotation away from the rotational limit," and claim 17 recites: "an arrow is revealed in a window positioned on a surface of the multiaxial hinge assembly when the display is rotated about the first

axis substantially to the at least one predetermined position," claim 18 recites: "the

the first axis." The aforementioned limitations in combination with all remaining

surface on which the arrow is positioned is stationary with respect to the rotation about

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limitations of claim 1,4 & 12 are believed to render the claims 1-9,12,13,17,18 and all claims dependent therefrom patentable over the art of record.

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Chen US 6694570 B2, Hsu 6804861 B2, Lu et al. 6742221 B2, Tanimoto et al. 6850407 B2, Choi 20030193773 A1, Tseng et al. 6587333 B2, Chen et al. 6912122 B2, Pappas 20030052857 A1, Takemoto et al. 20040061999 A1, Nakakubo et al.6922212 B2, Moon 6275376 B1 & Mishio 20020048459 A1 show the state of the art regarding portable devices with biaxial hinge mechanisms.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ingrid Wright whose telephone number is (571) 272-8392. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2800, ext 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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IDW

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